

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of

OGATA et al

Serial No.: 09/925,017

Filed: August 9, 2001

For: REDUCTION RESISTANT THERMISTOR,
METHOD OF PRODUCTION THEREOF,
AND TEMPERATURE SENSOR
* * * * *

Atty. Ref.: 461-55

Group: 2832

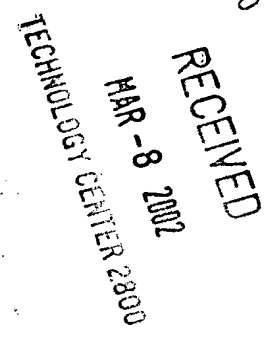
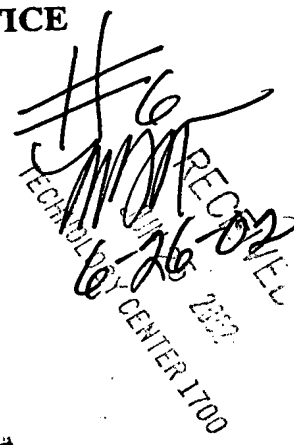
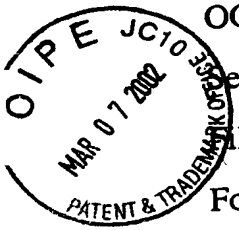
Examiner:

Honorable Commissioner of
Patents and Trademarks
Washington, DC 20231

Sir:

**REVOCATION, NEW POWER OF ATTORNEY
AND CHANGE OF ADDRESS**

Assignee, the owner of an undivided one-half (1/2) interest of the above-identified patent, hereby appoints Larry S. Nixon, 25640; Arthur R. Crawford, 25327; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329; Joseph A. Rhoa, 37515; Raymond Y. Mah, 41426; Chris Comuntzis, 31097; Gary T. Tanigawa, 43180 of the firm of Nixon & Vanderhye P.C., 1100 North Glebe Road, 8th Floor, Arlington, VA 22201-4714, telephone (703) 816-4000, facsimile (703) 816-4100, to transact all business in the Patent and Trademark Office in connection therewith. Every attorney at law associated with that law firm is hereby authorized to sign any paper or conduct any business on its behalf. Assignee hereby revokes all powers of attorney previously granted with respect to the subject patent.



Certificate Under 37 C.F.R. §3.73(b)

DENSO Corporation, a corporation having a place of business at 1-1 Showa-cho, Kariya-city, Aichi-pref. 448-8661 Japan states that it is the assignee of the an undivided one-half (1/2) interest of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors to the aforesaid assignee, a copy of the assignment being attached and/or recorded at the United States Patent Office on October 9, 2001 at Reel 012248, Frame 0437.

The undersigned (whose title is typed below) is empowered to sign this statement on behalf of DENSO Corporation.

All correspondence regarding the above-identified patent is to be sent to:

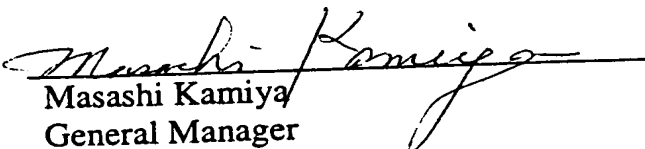
Larry S. Nixon
Nixon & Vanderhye P.C.
1100 North Glebe Road, 8th Floor
Arlington, VA 22201
Telephone: 703 816 4000
Facsimile: 703 816 4100

DENSO CORPORATION

By:

Name:

Title:


Masashi Kamiya

General Manager

Intellectual Property Department

Date:

February 20, 2002

461-55
LSN

DECEMBER 20, 2001

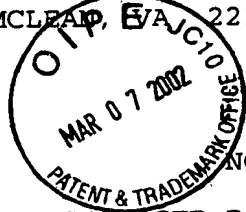
PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

PILLSBURY WINTHROP, LLP
GLENN J. PERRY
1600 TYSONS BOULEVARD
MCLEAN, VA 22102



101877863A



UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/09/2001

REEL/FRAME: 012248/0437
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)

ASSIGNOR:
OGATA, ITSUHEI

DOC DATE: 08/13/2001

ASSIGNOR:
MAKINO, DAISUKE

DOC DATE: 08/13/2001

ASSIGNOR:
KUZUOKA, KAORU

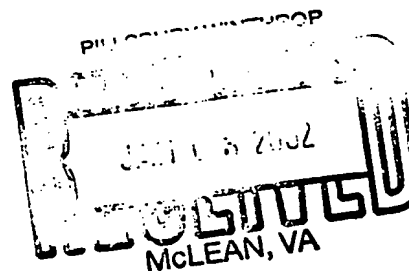
DOC DATE: 08/13/2001

ASSIGNOR:
KURANO, ATSUSHI

DOC DATE: 08/13/2001

ASSIGNEE:
NIPPON SOKEN, INC.
14, IWAYA, SHIMOHASUMI-CHO
NISHIO-SHI, AICHI, JAPAN

ASSIGNEE:
DENSO CORPORATION
1-1 SHOWA-CHO, KARIYA-CITY
AICHI-PREF., 448-8661, JAPAN



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012248/0437 PAGE 2

SERIAL NUMBER: 09925017
PATENT NUMBER:

FILING DATE: 08/09/2001
ISSUE DATE:

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



Y

TO THE ASSISTANT COMMISSIONER (SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

101877863

1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S))

1. Itsuhei OGATA
3. Kaoru KUZUOKA
5.
7.

2. Daisuke MAKINO
4. Atsushi KURANO
6.
8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Nippon Soken, Inc.

ADDRESS: 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☒ YES ☐ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: August 13, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) August 13, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☐ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
09/925,017	282802				

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons BoulevardMcLean, VA 22102
Tel: (703) 905-2000

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 282802 ND, NJ-J198-US
MATTER NO. CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975
UNDER ORDER NO 11349 282802
dup. sheet not required CLIENT NO. MATTER NO.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

3

Signature

Attorney: Glenn J. Perry

Reg. No. 28458

Atty/Sec: gjp/dlh

TEL: (703) 905-2161

Date: October 9, 2001

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

10/11/2001 RHARIS1 00000044 09925017

04 FC:581

40.00 DP

Continuation of item 2 RE
Name/Address of Assignee(s)

Name
Denso Corporation

Address
1-1 Showa-cho, Kariya-city, Aichi-Pref., 448-8661, Japan

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert
ASSIGNEE's
Name(s)
Address(es))

1) NIPPON SOKEN, INC.

14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan

2) DENSO CORPORATION

1-1 SHOWA-CHO KARIYA-CITY AICHI-PREF. 448-8661 JAPAN

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of
Invention)

REDUCTION RESISTANT THERMISTOR, METHOD OF PRODUCTION THEREOF,

AND TEMPERATURE SENSOR

relating to International Patent Application PCT/JP _____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date
of execution
of application,
if not
concurrent)

(a) executed on _____

(b) filed on August 9, 2001

Serial No. _____

Pillsbury Winthrop LLP
Washington, D.C.

U.S.A.) is hereby authorized to insert in (b) the specified
data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) Itsuhei Ogata
(SIGNATURE)

Itsuhei Ogata
(TYPE NAME)

August 13, 2001
(DATE)

2) Daisuke Makino
(SIGNATURE)

Daisuke Makino
(TYPE NAME)

August 13, 2001
(DATE)

3) Kaoru Kuzuoka
(SIGNATURE)

Kaoru Kuzuoka
(TYPE NAME)

August 13, 2001
(DATE)

4) Atsushi Kurano
(SIGNATURE)

Atsushi Kurano
(TYPE NAME)

August 13, 2001
(DATE)

5) _____
(SIGNATURE)

(TYPE NAME)

(DATE)

6) _____
(SIGNATURE)

(TYPE NAME)

(DATE)

7) _____
(SIGNATURE)

(TYPE NAME)

(DATE)

8) _____
(SIGNATURE)

(TYPE NAME)

(DATE)

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In re Patent of

OGATA et al

Atty. Ref.: 461-55

Serial No.: 09/925,017

Group: 2832

Filed: August 9, 2001

Examiner: Unassigned

For: REDUCTION RESISTANT THERMISTOR,
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* * * * *

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Nippon Soken, Inc., a corporation having a place of business at 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan states that it is the assignee of the an undivided one-half (1/2) interest of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors to the aforesaid assignee, a copy of the assignment being attached and/or recorded at the United States Patent Office on October 9, 2001 at Reel 012248, Frame 0437.

The undersigned (whose title is typed below) is empowered to sign this statement on behalf of Nippon Soken, Inc.

All correspondence regarding the above-identified patent is to be sent to:

Larry S. Nixon
Nixon & Vanderhye P.C.
1100 North Glebe Road, 8th Floor
Arlington, VA 22201
Telephone: 703 816 4000
Facsimile: 703 816 4100

Nippon Soken, Inc.

By: Hideaki Sasaya
Name: Hideaki Sasaya
Title: Executive Senior Managing Director

Date: February 7, 2002

40-55
LSN

DECEMBER 20, 2001

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

PILLSBURY WINTHROP, LLP
GLENN J. PERRY
1600 TYSONS BOULEVARD
MCLEAN, VA 22102



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 10/09/2001

REEL/FRAME: 012248/0437
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
OGATA, ITSUHEI

DOC DATE: 08/13/2001

ASSIGNOR:
MAKINO, DAISUKE

DOC DATE: 08/13/2001

ASSIGNOR:
KUZUOKA, KAORU

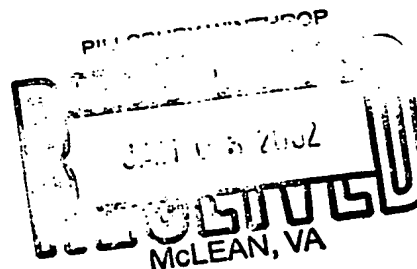
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ASSIGNOR:
KURANO, ATSUSHI

DOC DATE: 08/13/2001

ASSIGNEE:
NIPPON SOKEN, INC.
14, IWAYA, SHIMOHASUMI-CHO
NISHIO-SHI, AICHI, JAPAN

ASSIGNEE:
DENSO CORPORATION
1-1 SHOWA-CHO, KARIYA-CITY
AICHI-PREF., 448-8661, JAPAN



012248/0437 PAGE 2

SERIAL NUMBER: 09925017
PATENT NUMBER:

FILING DATE: 08/09/2001
ISSUE DATE:

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

10-18-2001

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Y

TO THE ASSISTANT COMMISSIONER (SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

101877863

1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Itsuhei OGATA
3. Kaoru KUZUOKA

2. Daisuke MAKINO
4. Atsushi KURANO

5.

6.

7.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Nippon Soken, Inc.

ADDRESS: 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☒ YES ☐ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: August 13, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) August 13, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☐ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
09/925,017	282802				

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons Boulevard McLean, VA 22102
Tel: (703) 905-2000

6. NUMBER INVOLVED:
APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 282802 ND, NJ-J198-US
MATTER NO. CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975
UNDER ORDER NO 11349 282802
dup. sheet not required CLIENT NO. MATTER NO.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

3

Signature

Attorney: Glenn J. Perry

Reg. No. 28458

Atty/Sec: gjp/dlh

TEL: (703) 905-2161

Date: October 9, 2001

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

10/11/2001 RHARIS1 00000044 09925017

04 FC:581

40.00 DP

Continuation of item 2 RE
Name/Address of Assignee(s)

Name
Denso Corporation

Address
1-1 Showa-cho, Kariya-city, Aichi-Pref., 448-8661, Japan

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert
ASSIGNEE's
Name(s)
Address(es))

1) NIPPON SOKEN, INC.

14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan

2) DENSO CORPORATION

1-1 SHOWA-CHO KARIYA-CITY AICHI-PREF. 448-8661 JAPAN

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(Title of
Invention)

REDUCTION RESISTANT THERMISTOR, METHOD OF PRODUCTION THEREOF,
AND TEMPERATURE SENSOR

relating to International Patent Application PCT/JP / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date
of execution
of application,
if not
concurrent)

(a) executed on

(Pillsbury Winthrop LLP

Washington, D.C.

U.S.A.

) is hereby authorized to insert in (b) the specified data, when known.

(b) filed on August 9, 2001

Serial No. /

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) Itsuhei Ogata
(SIGNATURE)

Itsuhei Ogata
(TYPE NAME)

August 13, 2001
(DATE)

2) Daisuke Makino
(SIGNATURE)

Daisuke Makino
(TYPE NAME)

August 13, 2001
(DATE)

3) Kaoru Kuzuoka
(SIGNATURE)

Kaoru Kuzuoka
(TYPE NAME)

August 13, 2001
(DATE)

4) Atsushi Kurano
(SIGNATURE)

Atsushi Kurano
(TYPE NAME)

August 13, 2001
(DATE)

5) _____
(SIGNATURE)

(TYPE NAME)

(DATE)

6) _____
(SIGNATURE)

(TYPE NAME)

(DATE)

7) _____
(SIGNATURE)

(TYPE NAME)

(DATE)

8) _____
(SIGNATURE)

(TYPE NAME)

(DATE)

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